

### ABSTRACT OF THE INVENTION

A method of fabricating a catadioptric lens system, the method involving:  
fabricating a single catadioptric lens element having a bottom surface and an upper  
surface, the upper surface having a convex portion and a concave portion, both the  
5 convex and concave portions sharing a common axis of symmetry; cutting apart the  
catadioptric lens element to form  $2n$  pie-shaped segments, wherein  $n$  is an integer; and  
reassembling the  $2n$  pie-shaped segments to form the catadioptric lens system with  $n$   
of the  $2n$  pie-shaped segments being located above a common plane and the rest of  
the  $2n$  pie-shaped elements being below the common plane.